

LITHOLOGIC LOG

MONITORING WELL No. MWC024

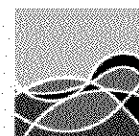
Logged By: Micheal Lewis
Checked By: Micheal Rendina
Driller: Cascade Drilling
Drilling Method: Sonic Drilling
Sampling Method: Shelby Tube
Sampling Interval: Continuous Core

Date Started: 10/20/06
Date Completed: 10/26/06
Northing: 1768408.81
Easting: 6470265.98
Elevation: 51.64 Feet
Boring Depth: 125 Feet

Client: Boeing Realty Corp.
Site: Former C-6 Facility
Location: Los Angeles, California
Project No.: 1155.002

Page: 1 of 7

Depth (ft)	Sample Number	Sample Depth	Blow Count (per foot)	OVM (ppm)	Graphic Log	Soil Classification	Description	Well Completion Details
0							Concrete	
2						CL	Brown (10YR 4/3), CLAY, moist, very stiff, plastic, with little to some silt.	
4								
6							Note: Scattered concrete and brick debris.	
8								
10				0.0		ML	Brown (10YR 4/3), SILT, moist, firm to stiff, little to some clay, some fine-grained sand.	
12								
14								
16				0.0				
18								
						CL	Brown (10YR 4/4), CLAY, moist, stiff, some silt, plastic.	
20								



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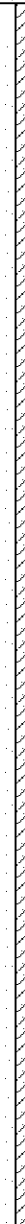
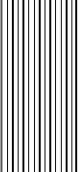
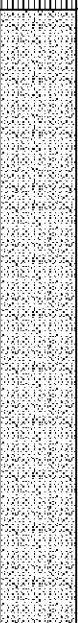
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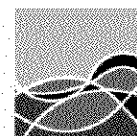
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22				0.0		CL	Brown (10YR 4/4), CLAY, moist, stiff, some silt, plastic.				
24											
26											
28				0.0		ML	Brown (10YR 4/3), SANDY SILT, moist, firm, very fine-grained.				
30				0.0		SP	Light yellowish brown (10YR 5/4), SAND, moist, poorly graded, very fine-grained, little silt.				
32											
34							Light yellowish brown (10YR 5/4), SAND, moist, poorly graded, very fine-grained.				
36				0.0							
38				0.0							
40											



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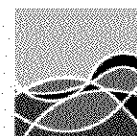
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Depth (ft)	Sample Number	Sample Depth	Blow Count (per foot)	OVM (ppm)	Graphic Log	Soil Classification	Description	Well Completion Details			
42				0.0		ML	Olive brown (2.5Y 4/4), SILT, moist, firm, some very fine-grained sand, oxidation staining in veins throughout.				
44				0.0		SM	Light olive brown (2.5Y 5/4) SILTY SAND/SANDY SILT, moist, firm, poorly graded, very fine-grained sand.				
46				0.0		ML	Olive brown (2.5Y 4/4), SILT, moist, firm, some very fine-grained sand, oxidation staining.				
48				0.0		SM	Light olive brown (2.5Y 5/4) SILTY SAND, moist, stiff, some intervals of more silt and oxidation staining.				
50				0.0		ML	Olive brown (2.5Y 4/4) SILT, moist, firm, slightly plastic, some clay in zones, oxidation staining in veins throughout.				
52				0.0		SP	Note: Gradational change from silt above to sand. Light yellowish brown (2.5Y 6/4), SAND, moist, poorly graded, very fine-grained, faint oxidation staining.				
54				0.3							
56				0.3		ML	Note: Gradational change from sand, to silty sand, to silt. Dark grayish brown (2.5Y 4/2), SILT, very moist, firm, micaceous.				
58				1.5							
60											



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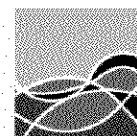
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Depth (ft)	Sample Number	Sample Depth	Blow Count (per foot)	OVM (ppm)	Graphic Log	Soil Classification	Description	Well Completion Details
62				0.0			Dark grayish brown (2.5Y 4/2), SILT, very moist, firm, micaceous.	
64	MWC024 SSB00065_0001			0.4		SP	Groundwater encountered approximately 63 feet. Olive brown (2.5Y 4/3), SAND, wet to saturated, poorly graded, very fine-grained, little to some silt, faint oxidation staining.	
66	MWC024 SSB00066_0001			0.0			Olive brown (2.5Y 4/3), SAND, saturated, poorly graded, fine-grained, little very fine-grained. Note: Lost Shelby tube down-hole (broke off) on second run (11:00) - Recovered.	
68				0.0			Light olive brown (2.5Y 5/4), SAND, saturated, poorly graded, fine-grained, some very fine-grained, scattered small oxidation stained concretions.	
70	MWC024 SSB00069_0001			0.0			Light olive brown (2.5Y 5/4), SAND, saturated, poorly graded, fine-grained, little medium-grained sand.	
72				0.0				
74				0.0		SM	Very dark grayish brown (2.5Y 3/2), SILTY SAND, moist to very moist, dense, very fine-grained, micaceous, oxidation staining.	
76				0.0		SP	Dark grayish brown, (2.5Y 4/2), SAND, wet, poorly graded, fine-grained.	
78				1.5		CL	SILTY CLAY, moist, stiff, plastic, oxidation staining.	
				0.0		SP	Olive brown (2.5Y 4/3), SAND, wet to saturated, poorly graded, fine to very fine-grained, faint oxidation staining.	
80				0.0		SM		



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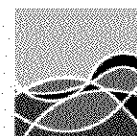
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Depth (ft)	Sample Number	Sample Depth	Blow Count (per foot)	OVM (ppm)	Graphic Log	Soil Classification	Description	Well Completion Details
82				1.1		SM	Dark grayish brown, (2.5Y 4/2), SILTY SAND, gradational change from poorly graded sand (above) to silty sand to silt (below).	Outer Conductor Casing
				1.3		ML	Dark grayish brown, (2.5Y 4/2), SILT, moist, stiff, faint oxidation staining.	
				14.6		SC	Note: Outer conductor casing set at 81 feet. Install bentonite pellet seal. Continue drilling with inner casing.	
84				0.0			Olive brown (2.5Y 4/4), CLAYEY SAND, very moist, slightly plastic, fine-grained sand, abundant shells and shell fragments.	
86				0.0		SP	Olive brown (2.5Y 4/4), SAND, saturated, poorly graded, fine-grained, abundant shells.	
88				0.0		CL	Light olive brown (2.5Y 5/4), CLAY, moist, very stiff, plastic.	
90				0.0		SP	Olive brown (2.5Y 4/4), SAND, wet, poorly graded, very fine-grained, oxidation staining in veins.	
				0.0		CL	Light olive brown (2.5Y 5/4), CLAY, moist, hard, plastic.	
92				0.0		SP	Olive brown (2.5Y 4/4), SAND, wet, poorly graded, very fine-grained, little silt, no shells.	
94				0.0				
96				1.2		CL	Olive brown (2.5Y 4/4), SILTY CLAY, moist, hard, slightly plastic, few stringers of very fine-grained oxidized sand.	Bentonite Pellets
98				4.1				
100								



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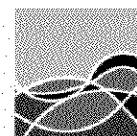
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Depth (ft)	Sample Number	Sample Depth	Blow Count (per foot)	OVM (ppm)	Graphic Log	Soil Classification	Description	Well Completion Details
102				0.2		SP	Light olive brown (2.5Y 4/4), SAND, wet to saturated, poorly graded, very fine-grained, faint oxidation staining	
104				1.9		CL	Olive brown (2.5Y 4/3), SILTY CLAY, moist, very stiff, slightly plastic, oxidation staining in veinlets throughout.	
106				0.4				
108				0.0		ML	Dark grayish brown (2.5Y 4/2), SILT, moist, very stiff, oxidation staining in veinlets throughout. Grading into;	
110				0.0		SM	Dark grayish brown (2.5Y 4/2), SILTY SAND, very moist, stiff, very fine-grained.	
112				0.0		SP	Olive brown (2.5Y 4/4), SAND, saturated, poorly graded, very fine-grained, some silt.	
114				0.0		CL	Dark grayish brown (2.5Y 4/2), CLAY, moist, hard, some silt, oxidation staining in veins throughout.	
116	MWC024 SSB00115_0001			0.3		SM/ML	Dark grayish brown (2.5Y 4/2), SANDY SILT/SILTY SAND, moist, very fine-grained, oxidation staining.	
118	MWC024 SSB00116_0001			0.0		SP	Dark yellowish brown (10YR 4/4), SAND, saturated, poorly graded, fine-grained, trace medium-grained, oxidation staining.	
120				0.0		SP	Olive brown (2.5Y 4/4), CLAYEY SILT, moist, firm, slightly plastic, little oxidation staining.	
				0.0		ML	Dark yellowish brown (10YR 4/4), SAND, saturated, poorly graded, fine-grained, trace medium-grained, scattered shells and fragments.	
				0.0		ML	Olive brown (2.5Y 4/3), SILT, moist, hard, trace clay, oxidation staining in veins, % very fine sand increases with depth.	
				0.4			Olive brown (2.5Y 4/3), SILT, very moist, firm, little to some very fine grained-sand.	

4" Sch 80 PVC 0.02" Slot

#39 Blend Sand



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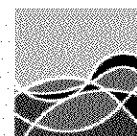
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Depth (ft)	Sample Number	Sample Depth	Blow Count (per foot)	OVM (ppm)	Graphic Log	Soil Classification	Description	Well Completion Details
122				0.1		SM	Olive brown (2.5Y 4/3), SILTY SAND, very moist to wet, very fine-grained sand.	
124				0.0		SP	Olive brown (2.5Y 4/3), SAND, saturated, poorly graded, fine-grained, trace medium-grained.	
126				1.6				
128							<u>Well Detail</u> 0 to 96 4" Sch 80 PVC Blank 96 to 121 4" Sch 80 PVC 0.020 Slot 0 to 2.5 Concrete with Traffic Rated Well Box 2.5 to 93 Portland Cement w/ 5% Bentonite Grout 93 to 96 Bentonite Pellets 96 to 122 #39 Blend Sand	
130								
132								
134								
136								
138								
140								

Notes: Boring total depth 125 feet. Groundwater encountered at approximately 63 feet. Boring completed as a groundwater monitoring well.



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